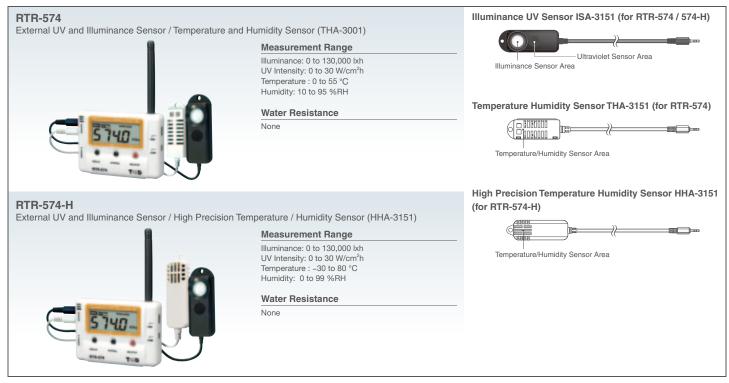
# RTR-574: One Logger records Illuminance, UV, Temperature and Humidity



Note: Currently, these products are not compatible with RTR-500GSM

## View Recording Status on Easy-to-Read Display

The large display allows you to easily check the RTR-574's recording status, battery status and remaining data capacity as well as all types of measurements.



- This mark comes ON when recording is in progress Scale shows the amount of stored data. A block is added for every 2000 readings
- Communication status is shown here
- 3 4 5 Current Recording Mode (ENDLESS or ONETIME) is shown here This mark shows when it is time to replace battery

# Illuminance Measurable in Wide Range

The Illuminance measurement range is from 0 to 130,000 lx; which means it is possible to measure in both dim moonlight and the bright summer sun. And with recording and display possible at a resolution down to 0.01 lx, measurements can be taken in conditions of even less light.

#### View Cumulative Values

Besides measuring and recording Illuminance, UV, Temperature and Humidity, the RTR-574 calculates and displays the "Cumulative Illuminance" and "Cumulative Amount of UV Light" during a recording session.

- Cumulative Illuminance Display Range: 0 to 90,000,000 lxh
- Cumulative Amount of Ultraviolet Light Display Range: 0 to 62W/cm<sup>2</sup>h

#### Simple, Direct USB Connection

It is possible to connect an RTR-574 Unit directly to your computer with a USB cable. Data can be quickly and easily downloaded to your PC. If the computer has more than one USB port, it is possible to connect multiple RTR-574 Units to one computer at the same time.

Note: This is not possible if your operating system is Windows XP.

# Logging Capacity: 8,000 data sets

Up to 8,000 data sets can be stored in one logger. One data set consists of readings for all channels in that type of unit: Illuminance, UV intensity, Temperature, and Humidity.

#### Recording Mode (Endless / One Time)

Select the Recording Mode from Endless or One Time. When using Endless Mode, upon reaching the logging capacity the oldest data is overwritten and recording continues. When using One Time, upon reaching logging capacity recording automatically stops. When using RTR-500NW or RTR-500AW as a Base Unit, only "Endless" is available.

# **Button Operation Possible**

The buttons on the face of the RTR-574 Unit make it possible to change the LCD display pattern, start and stop recording, make or change recording interval settings, and turn power ON or OFF. To prevent unexpected errors in button operation, you can use the software supplied with the Base Unit to lock the button operation.

### **DISPLAY Button**

The RTR-574 display can be changed as follows: Illuminance (Ix, kIx) >> UV Intensity (mW/cm<sup>2</sup>) >> Temperature (°C , °F) >> Humidity (%) >> Cumulative Illuminance (Ixh, klxh, Mlxh) >> Cumulative Amount of Ultraviolet Light (mW/cm<sup>2</sup>h, W/cm<sup>2</sup>h ) >> Back to the Alternate Display. By pressing the Display Button it is possible to switch between continually viewing all items in a cycle or select only certain items for view.

# **INTERVAL Button**

Use this button to check the current Recording Interval and make any necessary changes to it.

# **REC/STOP Button**

Use this to start and stop recording.

### Up to Four Months of Operation on One Battery

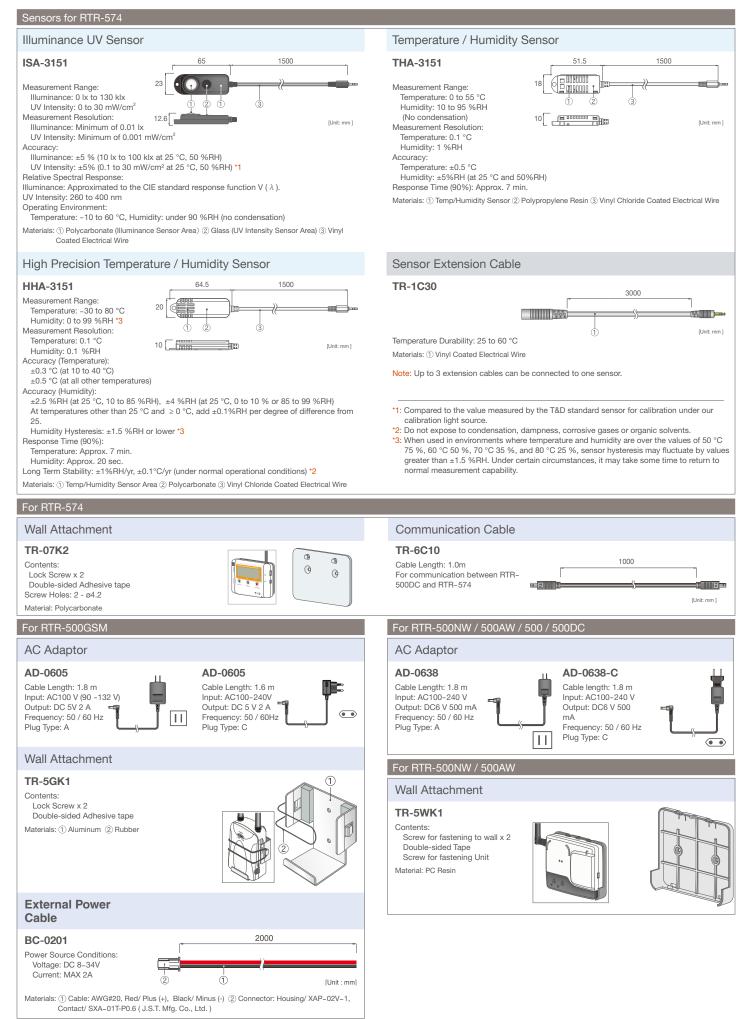
Power is provided by one AA alkaline battery. If one RTR-574 at full logging capacity is downloaded once a day via wireless communication, the estimated battery life is about four months.

Note: \* Battery life varies depending upon the type of battery, the measuring environment, the frequency of communication, and the ambient temperature in which it is used. All estimates are based on operations carried out with a new battery and are in no way a guarantee of actual battery life.

\*There are no L-types models of RTR-574.

#### Possible to Adjust Measurements

An Adjustment Function has been included to aid in the adjustment of measurements. This Function can be set up with the "Adjustment Tools" application in the software supplied with the Base Unit.

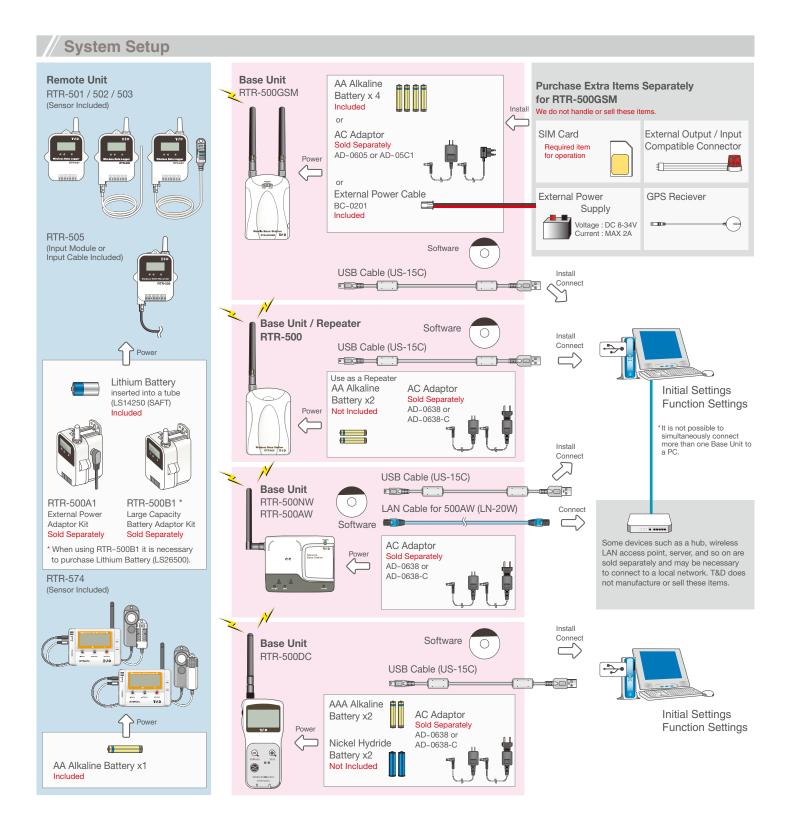


Product	RTR-574		RTR-574-H	
Temperature/Humidity Sensor (External)	THA-3151		HHA-3151 (High-Precision Type)	
	Thermistor	Polymer Resistance	Platinum Resistance	Electrostatic Capacitance
Measurement Channels	Temperature 1ch	Humidity 1ch	Temperature 1ch	Humidity 1ch
Units of Measurement	°C, °F	%RH	°C, °F	%RH
Measurement Range	0 to 55 °C	10 to 95 %RH	-30 to 80 °C	0 to 99 %RH
Accuracy	±0.5 °C	±5 %RH (at 25 °C, 50 %RH)	±0.3 °C (at 10 to 40 °C) ±0.5 °C (at all other temperatures)	$\begin{array}{l} \pm 2.5 \ \% RH \ (at \ 25 \ ^\circ C, \ 10 \ to \ 85 \ \% RH) \\ \pm 4.0 \ \% RH \ (at \ 25 \ ^\circ C, \ 0 \ to \ 10 \ \% \ or \ 85 \ to \ 99 \\ \% RH) \\ At \ temperatures \ other \ than \ 25 \ ^\circ C \ and \ \ge \ 0 \ ^\circ C, \\ add \ \pm 0.1 \ \% RH \ per \ degree \ of \ difference \ from \ 34 \\ Humidity \ Hysteresis: \ \pm 1.5 \ \% RH \ or \ lower \ (^1) \end{array}$
Measurement Resolution	0.1 °C	1 %RH	0.1 °C	0.1 %RH
Responsiveness	Response Time (90 %): Approx. 7 min.Response Time (90 %): Approx. 7 min.Response Time (90 %): Approx. 20 sec.			
Illuminance / UV Sensor (External)	ISA-3151		<u>.</u>	·
Measurement Channels	Illuminance: 1ch UV intensity: 1ch			
Units of Measurement	Illuminance: lx, klx UV intensity: mW/cm <sup>2</sup>			
Measurement Range	Illuminance: 0 lx to 130 klx UV Intensity: 0 to 30 mW/cm <sup>2</sup>			
Units of Cumulative Measurement	Cumulative Illuminance: Ixh, klxh, Mlxh Cumulative amount of UV Light: mW/cm <sup>2</sup> , W/cm <sup>2</sup>			
Display Range of Cumulative Measurement	Illuminance: 0 lxh to 90 Mlxh UV intensity: 0 mW to 62 W/cm <sup>2</sup> h			
Accuracy	Illuminance: 10 lx to 100 klx : ±5 % (at 25 °C, 50 %RH) UV Intensity: 0.1 to 30 mW/cm <sup>2</sup> : ±5 % (at 25 °C, 50 %RH) (*2)			
Relative Spectral Response	Illuminance: Approximated to the CIE standard response function V ( $\lambda$ ) UV Intensity: 260 to 400 nm			
Measurement Resolution	Illuminance: Minimum of 0.01 lx UV Intensity: Minimum of 0.001 mW/cm <sup>2</sup>			
Responsiveness	Response Time (90%): 3 sec. (at recording interval of 1 sec.) 6 sec. (at other intervals)			
Logging Capacity	8,000 data sets (One data set consis	sts of readings for all channels in that	type of unit.)	
Recording Interval	Select from 15 choices: 1, 2, 5, 10, 15, 20, 30 sec. or 1, 2, 5, 10, 15, 20, 30, 60 min.			
Recording Mode (*3)	Endless (Overwrite oldest data when capacity is full) or One Time (Stop recording when capacity is full)			
LCD Display Items	Measurements, Battery Life Warning, etc. Measurements: Illuminance / UV Intensity / Temperature / Humidity / Cumulative Illuminance / Cumulative amount of UV Light Display Pattern: Alternating or Fixed display Display Digits: Up to 4 digits			
Communication Interfaces	Wireless Communication (Short Range Radio Communication) FCC Part15 Section247 / IC RSS-210 (Frequency Range: 902 to 928 MHz, RF Power: 7 mW) ETSI EN 300 220 (Frequency Range: 869.7 to 870 MHz, RF Power: 5 mW) USB Communication Serial Communication (RS-232C) (*4)			
Wireless Transmission Range	Approx. 150 meters (500 ft) if direct and unobstructed			
Power	AA Alkaline Battery (LR6) x 1			
Battery Life (*5)	Approx. 4 months			
Dimensions	H 55 mm x W 78 mm x D 18 mm (excluding protrusions) Antenna Length: 60 mm			
Weight	About 68 g (including battery, exclud	ling sensor)		
Operating Environment	Temperature: -10 to 60 °C Humidity: 90 %RH or less (no condensation)			
Accessories	AA alkaline battery (LR6), USB Communication Cable (US-15C), Illuminance/UV Sensor (ISA-3151), Temperature/Humidity Sensor (THA-3151 or HHA-3151), Software (CD-ROM), User's Manual Set (Warranty Included)			
Compatible Base Units	RTR-500, RTR-500NW/500AW, RTF	3-500DC		

70°C 35%, and 80°C 25 %, sensor hyste may fluct by values gre er than ±1.5

%RH. Under certain circumstances, it may take some time to return to normal measurement capability.
\*2: Compared to the value measured by the T&D standard sensor for calibration under our calibration light source.
\*3: Only "Endless" is available when using RTR-500W for Windows.
\*4: Customers wishing to write their own software, please contact your local distributor for the serial communications protocol specifications. (Note: Optional serial communication cable TR-07C is also required.)

\*5: Battery life varies depending upon the ambient temperature in which it is used, the recording interval, the frequency of communication, and the battery performance. All estimates are based on operations carried out with a new battery and are in no way a guarantee of actual battery life. The specifications listed above are subject to change without notice.



For product information, software update and FAQ ; T&D Website http://www.tandd.com/



Caution regarding safety For safe operation carefully read instructions before using the product.

Colors in the photos in this catalog may be different from real product colors. The specifications and designs of the products in this catalog are true as of March 2012. Specifications are subject to change without notice. Microsoft® and Windows® are registered trademarks of Microsoft Corporation USA and other countries. GSM is a trademark of GSM MOU Association. All registered trademarks, company names, product names and logos mentioned herein are the property of T&D Corporation or of their respective owners.

Distributor



# **T&D** Corporation

817-1 Shimadachi, Matsumoto, Nagano Japan 390-0852 Please send your inquiries to: E-mail : sales@tandd.com Facsimile : (+81) 263-40-3152

